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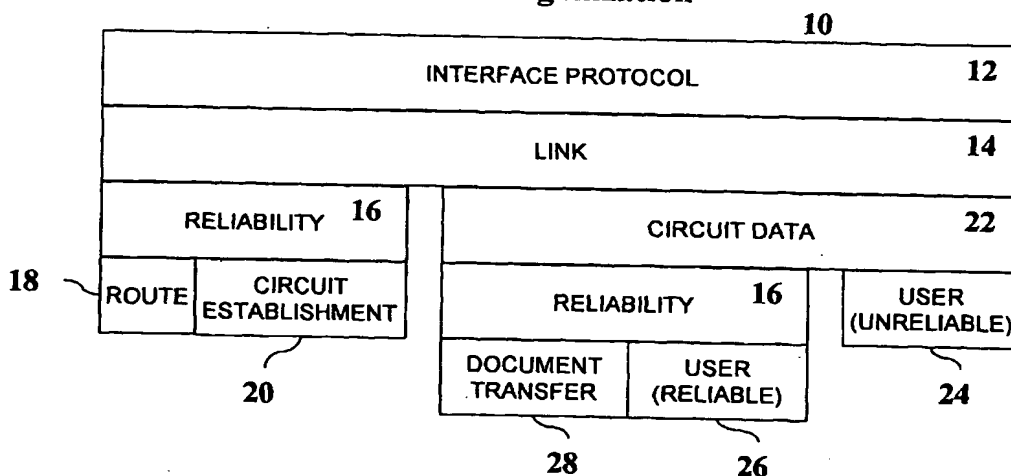
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(54) Title: METHOD AND APPARATUS FOR SECURE COMMUNICATIONS AND RESOURCE SHARING BETWEEN ANONYMOUS NON-TRUSTING PARTIES WITH NO CENTRAL ADMINISTRATION

Stack Organization



(57) Abstract: A unifying network model with a structure and architecture configured to address security, interoperability, mobility, and resource management, including priority and quality of services is provided. The network of the network model is structured as a hierarchical mesh network, with dynamically generated routing tables. The configuration of the network model optimizes routing and distributes communication load. Every device on the network is capable of being both an endpoint and a forwarder of communications. The network model may include underlying networks that are represented with one of two models, the link model or the star model. The nodes are organized in a hierarchical relationship structure to optimizes throughput. The model may include a cryptographic method of dynamically assigning local network addresses.

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